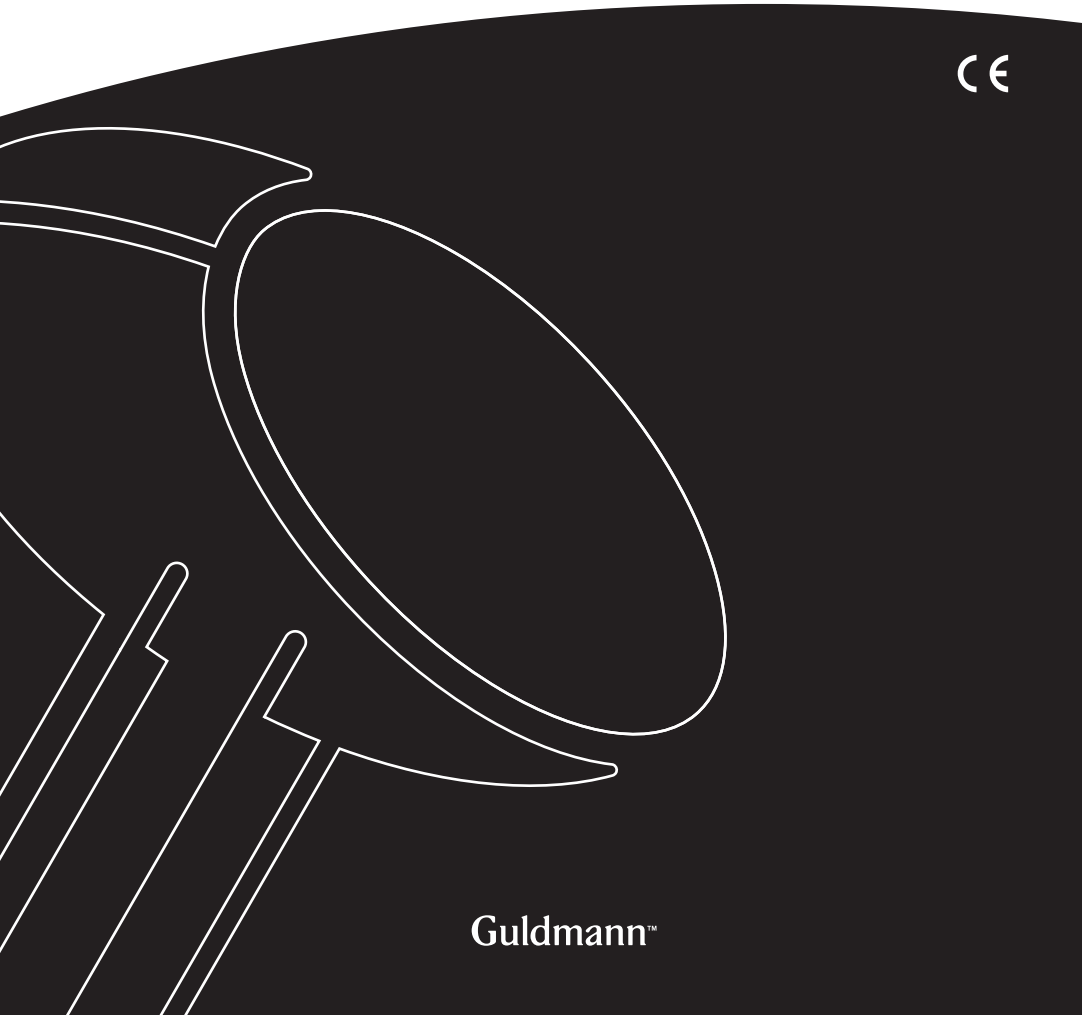
GB/US ..... GH1/GH1 Q Ceiling Hoist

Vers. 8.00



Guldmann™

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1.00 Purpose and use

1.01 Manufacturer

V. Guldmann A/S
Graham Bells Vej 21-23A
DK-8200 Aarhus N
Tlf. + 45 8741 3100
Fax + 45 8741 3131
www.guldmann.com

1.02 Purpose

GH1 is a hoist which covers the need for lifting or moving a person with disabilities in the home care sector, nursing homes, rehabilitation centres, riding schools and swimming pools.

Conditions for use

The use of the GH1 is subject to the following:

- The GH1 should only be used by trained personnel.
- The maximum nominal load, 175 kg (385 lbs), 205 kg (450 lbs), respectively, must not be exceeded *(section 1.04)*.
- The instruction offered by Guldmann to all customer groups in connection with the purchase of a ceiling-mounted hoist has been received.
- The helper pays attention to the well-being of the user when using the hoist.
- The hoist is used in rail systems which are installed, tested and approved according to DS/EN 10535 and Guldmann's stipulations.
- Only technicians who have been certified by Guldmann may install and test the rail systems.
- The hoist is used with a Guldmann lifting hanger *(section 1.08)*.
- The hoist is used with a Guldmann lifting sling or with other suitable slings *(section 1.09)*.

1.03 Important/Precautions

- Read the instructions carefully before using the GH1 and in connection with cleaning and service of the hoist.
- The GH1's maximum load must never be exceeded.
- The GH1 may only be used to lift a person.
- The red strap for the emergency stop and the emergency lowering must be adjusted to the helper's reach, and must not be removed.
- If the GH1 fails while in use, stop using the hoist and contact the Guldmann Service Team for repair.
- The GH1 is controlled by a microprocessor PCB, which can be damaged by static electricity if touched without the necessary precautions, *(see point 1.07)*
- The electronics may only be serviced by Guldmann approved service technicians.
- For safety reasons the side cover may only be dismantled when the emergency stop is activated *(see point 2.04)*.

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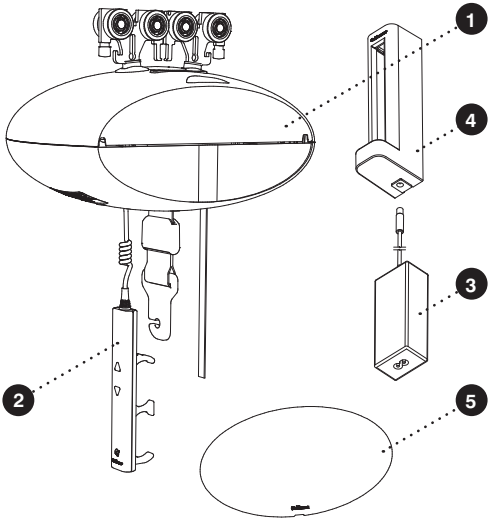
Re: EMC
If electromagnetic or other influences occur between this product and other products, these products must not be used together.

1.04 Load limits on GH1 system

Read the label which indicates the maximum load limits for each component. The component, e.g. lifting hanger, lifting sling, etc. labelled with the lowest load limit determines the maximum load limit for the entire system.
This maximum load limit must not be exceeded.
Please note that the max load may change when different components are used, such as lifting hangers, lifting slings, etc.

1.05 Unpacking and Preparation

Visual check of the GH1
If the GH1 is thought to be damaged upon reception, the GH1 must not be used before it has been checked and approved by a qualified person or the Guldmann Service Team.



Contents of the box

1. GH1 hoist
2. Hand control
3. Transformer
4. Charging station
5. Side covers
   (2 sets with 4 designs)
6. Manual
7. Label for rail system

Button for reset of emergency stop
GH1 is delivered with the emergency stop activated in order to ensure that the battery is not being discharged during long-term storage. Reset the emergency stop by pressing the “RESET” button on the bottom of the hoist *(see point 2.04)*.

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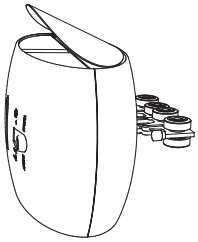
Mounting of side cover
GH1 is standard delivered with side cover in 4 different designs.
Before starting to mount the side cover it is important, for safety reasons, to make sure that the emergency stop is activated *(see point 2.04).*
The chosen side covers are fitted on the side of GH1 by bending the cover slightly and placing it in the groove at the side of GH1.



1.06 Installing a new GH1 hoist in an existing rail system

Please notice, when installing a new GH1 hoist in an existing rail system it must be ensured that:

- The rated max load of the rail system, must be equal or higher than the max load of the new hoist.
  – If there is no max load mentioned on the rail system, the rail system must then be checked according to the guideline in the installation manual (distance between bracket according to max load).
  – If the brackets are not visible, then a load test with 1,5 x max load of the hoist must be performed minimum 20 min. During the test the deflection of the rails must not be higher than 1/200 of the length of the rail.
  – If it is not possible to do any of the above mentioned, please contact Guldmann or their representative.

- If the rail system can not be rated to the same max load as the hoist, then extra brackets must be installed according to the installation manual (distance between bracket according to max load).

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1.07 **Installing / deinstalling GH1 Q in the rail**

The GH1 Q lifting module has a quick-release system which makes it very simple to click-on and click-off the lifting module from the rails if it from time to time is necessary to relocate the lifting module to another room or residence. The moving of the lifting module can be accomplished without any use of tools.

Installing GH1 Q

1. The travelling trolley is mounted in the rail.
2. Turn GH1 Q 90° in relation to the rail as illustrated and connect it to the travelling trolley.
3. Turn GH1 Q as illustrated until the hoist is parallel to the rail.
4. Stop pressing up and allow the safety lock to engage.
5. GH1 Q ceiling hoist is now ready to use.

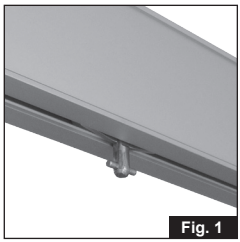
Fig. 1

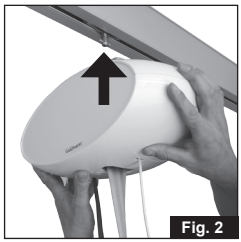
Fig. 2

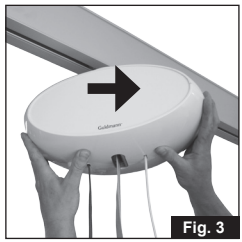
Fig. 3

Fig. 4

Fig. 5

Deinstalling GH1 Q

1. Press GH1 Q up to release it from the travelling trolley.
2. Turn GH1 Q 90° as illustrated.
3. Release and lift down GH1 Q.

Fig. 1

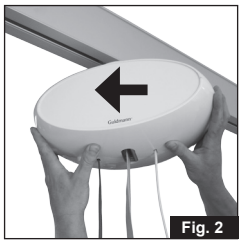
Fig. 2

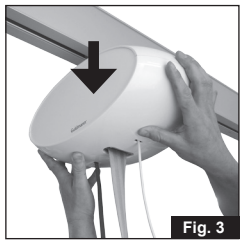
Fig. 3

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1.08 **Power supply**

GH1 is equipped with a battery that requires regular recharging. The power supply for the transformer and the charging station must be connected by Guldmann Service Team or by a qualified engineer.
The transformer supplied must ***always*** be used.

Safety concerning static electricity (ESD)

Service technicians and installers ***must*** use an ESD-safety package consisting of a mat, a ground wire, and a bracelet.
The technician/installer connects the mat to a grounding point, for instance a radiator or a water pipe. The technician/installer must then put on the bracelet and connect it to the mat. If it is not possible to find a grounding point, the mat and the bracelet must be used as a minimum.
Only then is it allowed to work with the PC Board or components where it is possible to come into contact with the PC Board.

Class I equipment

Fixed rail systems are class I equipment and ***must*** be installed by a qualified technician or by Guldmann Service Team.
Equipment is disconnected from Supply Mains by breaking the mains breaker switch.

Class II equipment

Mobile equipment is class II epuipment (marked with double-encassed symbol) and can be connected to the mains direct by the user.
Equipment is disconnected from Supply Mains by detaching the mains plug from the wall outlet.

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1.09 Installation of the lifting hanger before use

Lifting hangers from other manufacturers
Guldmann shall not be liable for faults or accidents that may occur as a result of using lifting hangers made by other manufacturers.

If there is any doubt about the selection or use of a lifting hanger, please contact your supplier.

The lifting hanger can be installed to the lifting strap without the use of any tools.

4. Hold the lifting hanger in the right hand and press the yellow button using the thumb as shown *(Fig. 1)*.

5. Insert the strap attachment in the slot on the lifting hanger top cover with the open side facing down *(Fig. 2a, 2b)* and release the yellow button *(fig. 2c)*.

6. Rotate the strap attachment to a vertical position *(fig. 3)*.

   Check that the yellow button has returned to its locked position by checking that it is flush with the cover of the lifting hanger and that the strap attachment can rotate freely.

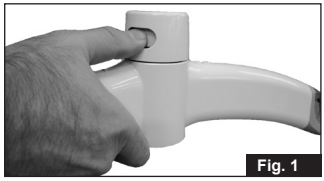
Fig. 1

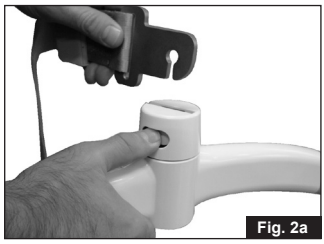
Fig. 2a

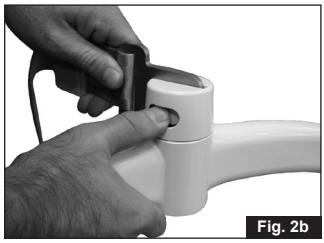
Fig. 2b

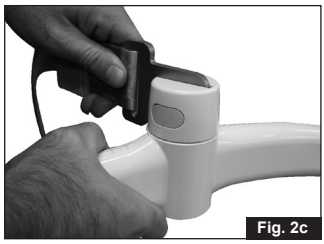
Fig. 2c

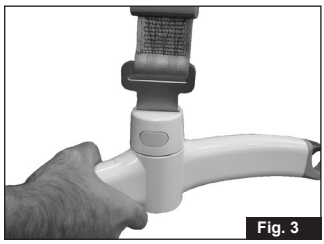
Fig. 3

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1.10 Lifting sling

A lifting sling with four to eight lifting straps designed for mounting on hooks should be used when using a Guldmann lifting hanger. Place the straps on the hooks. Make sure that the rubber safety catch returns to its start position, so the straps can not unintentionally fall off.

Slings made by other manufacturers

Guldmann shall not be liable for faults or accidents that may occur as a result of using lifting slings made by other manufacturers.

If there is any doubt about the selection or use of a lifting sling, please contact your supplier.

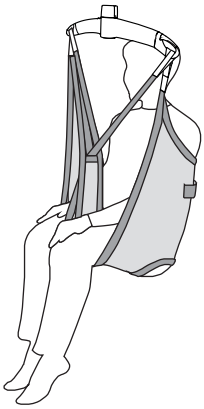
Guldmann shall not be liable for faults or accidents due to incorrect use of the lifting sling, or for reasons of inadequate attention on the part of the carer or user.

Attaching the lifting sling

Place the straps from the lifting sling on the hooks on the lifting hanger. Start with the uppermost set of straps (from the back) and then take the lowest set of straps (from the legs).

Caution!

Be careful when attaching the lifting sling on the hooks. Check that the straps have been pulled completely through the rubber safety catch (A) and into place in the lifting hanger's hooks. When pressing the up button to lift the user, check again that all the straps remain correctly placed in the lifting hanger's hooks (fig. 1a and fig. 1b).



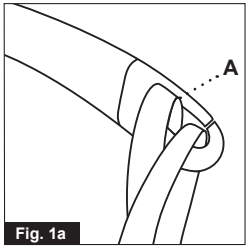


Fig. 1a

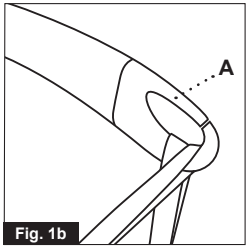


Fig. 1b

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Lifting to and from a seated position
When lifting a user from e.g. a wheelchair, move the GH1 towards the person to be lifted. The lifting hanger should be at the same height as the user's chest and should not be moved further in over the user than to approximately mid-thigh position.
Place the lifting hanger parallel to the user's shoulders.
Place the lifting sling behind the user's back between the back of the chair and the user's back. The center marks of the lifting sling should follow the user's spine.
Lead the leg straps along the outer sides of the user's shins and beneath the thighs between the hollow of the knees and the hip joints. Cross the leg straps in front of the user.
All four lifting straps are now ready to be attached. The lifting sling can now be mounted on the lifting hanger.

Lifting to and from lying position in bed
Bring the lifting hanger over the centre of the person to be lifted. Place the lifting hanger parallel to the user's shoulders.
Turn the user onto his or her side. The Basic High sling should be placed so that its top is at the same height as the top of the user's head. Now position the sling over the user so that the center marks follow the user's spine. Turn the user onto his or her back and pull out the remaining part of the lifting sling. Place the leg straps beneath the user's thighs and cross them. All four lifting straps are now ready to be attached and the lifting sling can now be mounted on the lifting hanger. It is an advantage to elevate the head of the bed so that the user is sitting up.

For further information, please refer to the user manual for the lifting sling in question.

Important!
Only persons who have received competent instruction regarding the use of lifting equipment and fitting of slings should use the hoist.

Plan the move. Avoid leaving the user in the lifting sling unattended.

The GH1 lifts quickly and powerfully. Before lifting, check that the user is completely free of his/her surroundings. The user's head, arms, hands and feet must not be in danger of becoming trapped. Be careful with any tubes and wires that are attached to the user.
Check that the hand control and hand control cable is free of hanger, user and other object before the hoist is activated up or down moved.

If the hoist is used correctly, the user should only be lifted to the extent that she/he is clear of the surface and should be moved at this height.

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1.11 Swing kit

The swing function is used in conjunction with a transfer e.g. through a door from one lifting module to another.

Note: *The swing adapter must be ordered separately.*

Fig. 1

Installation of swing adapter

1. Before starting a lift involving a swing transfer the swing adapter *(Fig. 1)* must be installed on the lifting hanger. *(fig. 2 til 5)*.

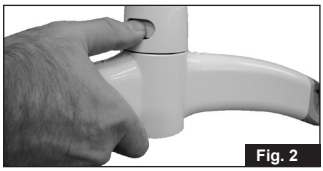
Fig. 2

2. Hold the lifting hanger in the right hand and press the yellow button using the thumb *(fig. 2)*.

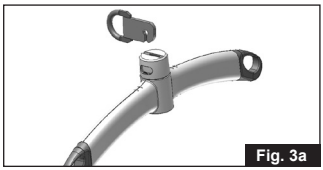
Fig. 3a

3. Insert the swing adapter in the slot on the lifting hanger top cover with the open side facing down *(Fig. 3a, 3b)* and release the yellow button.

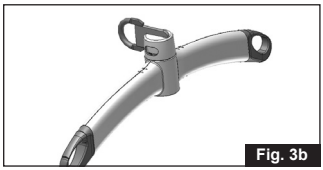
Fig. 3b

4. Rotate the swing adapter to a vertical position *(fig. 4)*.

   Check that the yellow button has returned to its locked position by checking that it is flush with the cover of the lifting hanger and that the swing adapter can rotate freely.

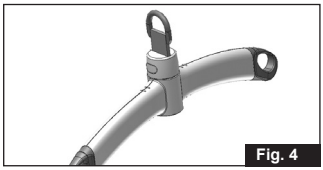
Fig. 4

5. Install the strap attachment to the swing adapter by sliding the open side of the strap attachment over the flat area of the swing adapter *(fig. 5)*.

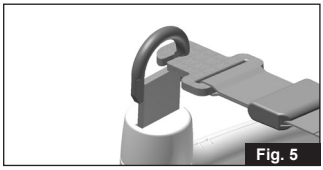
Fig. 5

6. Rotate the strap attachment and ensure that it moves up on the circular portion of the swing adapter *(fig. 6)*.

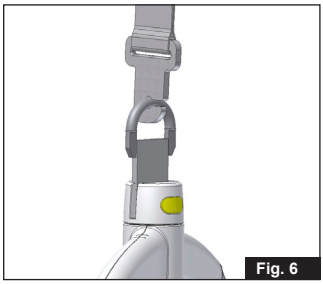
Fig. 6

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1.12 Using swing kit in doorway

1. Bring the two hoist as close together as possible. Adjust the height of the lifting hanger on hoist B so that the transfer can be done without the user touching the floor during the transfer from one hoist to another.

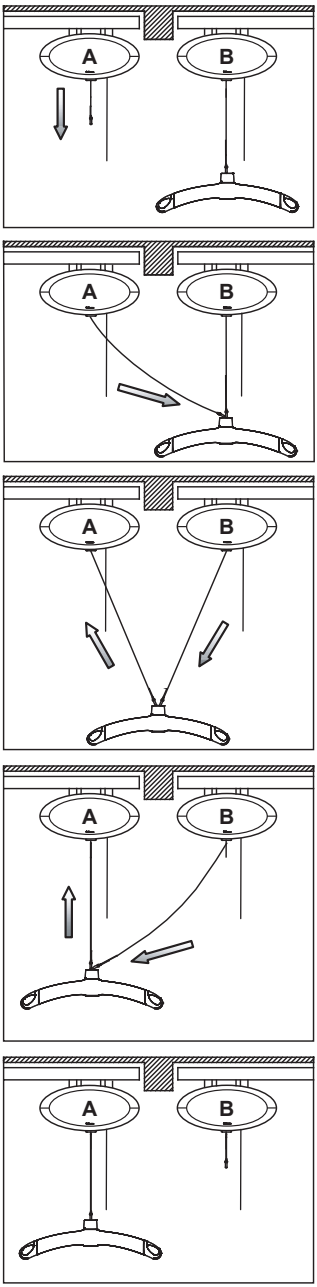
2. Take the free lifting strap from hoist A and secure it to the swing adapter on the lifting hanger *(see 1.10 figures 5 and 6)*.
   In order to lower the free lifting strap on hoist A a slight pull must be applied to the strap.

3. Lower the lifting hanger using hoist B while lifting the strap on hoist A to perform the swing transfer. The transfer has been completed when there is no load on the lifting strap on hoist B.

4. Disconnect the lifting strap on hoist B from the lifting hanger and raise the strap on hoist B out of the way.

5. Move the lifting hanger from hoist A to operating height and the doorway transfer is complete.

   Note: There must be a load on the lifting strap corresponding to the weight of Guldmann's lifting hanger before GH1's lowering function will operate.



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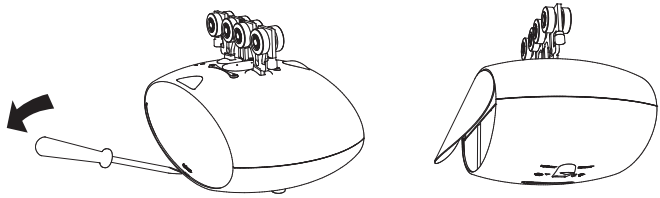
1.13 Exchange of side cover

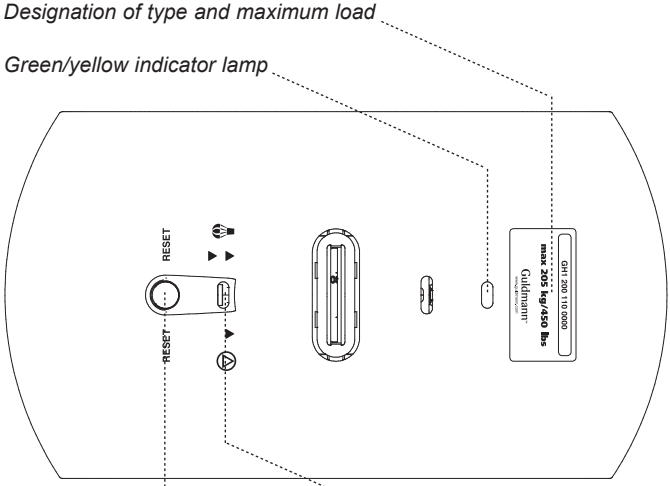
If you want to change the appearance of GH1, the side cover can be exchanged or turned. Before starting to mount the side cover it is important, for safety reasons, to make sure that the emergency stop is activated *(see point 2.04).*

The side cover is dismantled by inserting for instance a flat screwdriver in the opening between the groove and the cover and tilt the cover upwards and out. The side cover is fitted on the side of GH1 by bending the cover slightly and placing it in the groove on the side of GH1.



2.00 Description of functions

Information panel on the GH1 bottom surface.



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2.01 Pictograms

Emergency stop

Emergency lowering function

RESET Reset emergency stop

Danger - rotating parts

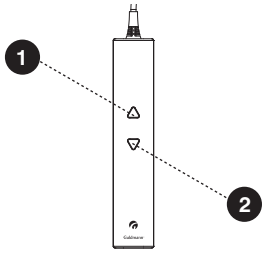
2.02 Indicator lamps and audio signals

Status	Indicator lamps	Audio signals	Possible GH1 Functions		
			Up	Down	Emergency lowering
Off – stand by	Off				
All OK	Green		✓	✓	✓
Low battery	Yellow		✓	✓	✓
Fault on hoist	Yellow	Beeps at button activation			✓
Battery critical low	Yellow			✓	✓
Over load	Green	Beeps at button activation		✓	✓

2.03 Operation

Hand control
The GH1 is switched on automatically when a button on the hand control is pressed.

The GH1 is switched off automatically after approx. 8 minutes without activation.



GH1
1. Lift
2. Lower

Note: There must be a load on the lifting strap corresponding to the weight of Guldmann's lifting hanger before GH1's lowering function will operate.

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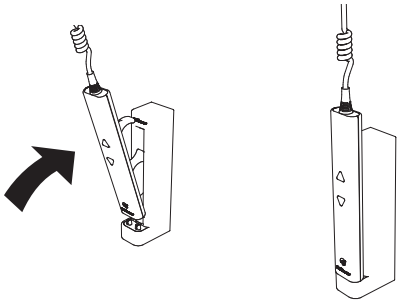
Charging / connection
GH1 is recharged when the hand control is placed in the charging station. Always leave the hand control in the charging station when GH1 is not in use. This guarantees GH1 functionality and maintains the battery to ensure a long lifetime.

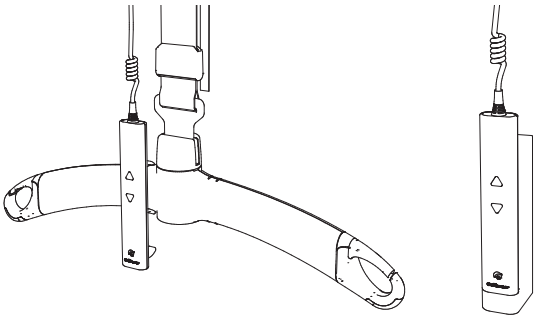
The transformer must be connected and switched on before charging can take place. A green indicator lamp on the transformer indicates it is connected and switched on.

Tilt the hand control and place it on the two pins on the charging station.Then push the rubber handle into the opening of the charging station. A click indicates that the hand control is placed correctly.



The indicator lamp on the bottom of the hoist turns yellow if the charge status becomes low. The GH1 then has a limited number of lifts available at a time and must be recharged.

Placing of the hand control
When GH1 is not in use the hand control must always be placed in the charging station. The hand control can also be placed on the lifting hanger if this is necessary in connection with a transfer.



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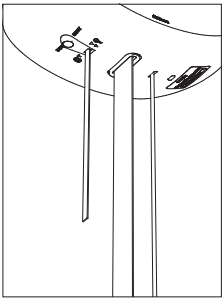
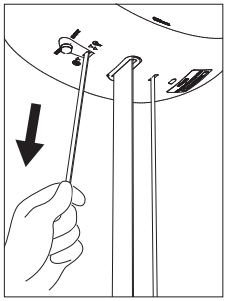
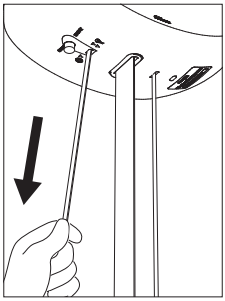
2.04 Safety functions

The emergency stop and emergency lowering device should only be used in an emergency. In the event that it is necessary to use the safety functions, the fault must be identified and rectified before the GH1 is taken into use again. Please contact your supplier.

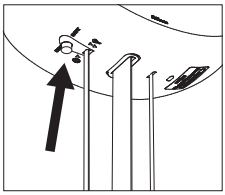
Emergency stop and lowering strap
The red strap has the following functions:

- One pull: Emergency stop is activated.
- Constant pull: Emergency lowering is activated.

Emergency stop
If the GH1 does not stop/react to the hand control when the GH1 is in use, pull the red strap and the lifting/lowering functions (except emergency lowering) are deactivated.
When the emergency stop is activated, the hoist will not function. The green lamp is switched off.

Reset emergency stop
Reset the emergency stop by pressing the yellow button on the bottom of the hoist.



The yellow button that appears when the emergency stop is pulled, must be pressed manually before the GH1 is ready for use.
After deactivating the emergency stop, activate the hand control twice.

Emergency lowering function, electric
If the GH1 fails, the electrical emergency lowering function is used to lower the user safely. The emergency lowering function is operated by a constant pull on the red strap that is used for the emergency stop.

When releasing the red strap, the emergency lowering function will be replaced by the emergency stop.

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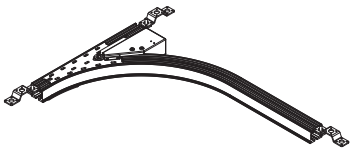
2.05 Accessories

Guldmann – Lifting slings and hangers
Obtain a product catalogue from Guldmann, or see our product range at www.guldmann.com where it is also possible to watch a video about the use of lifting slings and to download user manuals for our products.

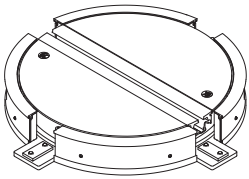
Extension strap
The extension strap is used where the distance between the lower part of the rails and the floor exceeds 3.5 m. The extension strap is available as an accessory.

Swing adapter
The swing function is used in conjunction with a transfer, e.g. through a door from one lifting module to another.

Switch track, electrical
A switch track can be used in rail systems where it is used to change direction.



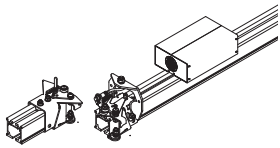
Turntable
The turntable is used in rail systems where the hoist needs to run in several directions.



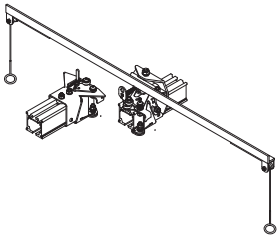
The GH1 hoist is placed in the center of the turntable. By pressing the switch, the turntable rotates 90°. Press again, and the turntable returns to the first position.

Safety
This product is mechanically protected against derailing and jamming.

Combi-lock, manual and electric
The Combi-lock is used when a single track rail system is to be linked up to a room-covering rail system, or when two room-covering rail systems need linking.



The Combi-lock ensures that the two systems are locked together in situations such as transfer from a single track rail system in a bedroom to a room-covering system in a bathroom.



The Combi-lock is available as an electric or a manual model. It is activated by either pressing the switch or pulling on the cord.

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Safety
This product is mechanically protected against derailing and jamming.

Battery
NiMH Battery 24V/2800mAh, Guldmann type number 550574.

Power supply
Power supply, Guldmann item number 554204.

3.00 Transport and storage

Guldmann recommends that the GH1 is always transported and stored in the original packaging.

Key to symbols on the GH1 packaging:

The GH1 should be stored at:
– Temperatures between -10 and +40°C / 14 and 104°F
– A relative air humidity of between 30 and 70 %
– An air pressure of between 700 and 1060 hPa
– This side up

4.00 Maintenance and storage

4.01 Cleaning

We recommend that the product and the parts that patients and caregivers can come in contact with are cleaned with Novadan Des Wipes or Novadan Desinfect O.

Desinfect O: A broad-spectrum disinfectant system as tablets. Suitable for disinfection of equipment, tools and surfaces in the healthcare sector.

Novadan Des Wipes: Is a disposable wipe for cleaning and disinfection of all types of surfaces, machines and instruments in the healthcare sector.

NB: Do never clean the GH1, hanger, trolley or rails with strong acid, base or alcohol. Never clean the GH1 in an autoclave.

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Desifect O is effective against:	Novadan Des Wipes is effective against:
Microbial- & Virus test	
• Staphylococcus aureus (ATCC 6538) (EN 13697:2001) • Enterococcus hirae (ATCC 10541) (EN 13697:2001) • Escherichia coli (ATCC 10536) (EN 13697:2001) • Pseudomonas aeruginosa (ATCC 15442) (EN 13697:2001) • Candida albicans (ATCC 10231) (EN 13697:2001) • Swine plague - Bovine viral diarrhea virus (BVDV) (EN 14675:2006) • Swine and avian flue (Influenza A virus H1N1) (EN 14675:2006)	• Staphylococcus aureus • Escherichia coli • Proteus mirabilis • Pseudomonas aeruginosa • Candida albicans • MRSA • H1N1 • HBV (HIV) • HCV

Novadan product	Description	Microbial and Virus test	Application	Dosing	Frequency
Desinfect O	A broad-spectrum disinfectant system as tablets.	Staphylococcus aureus, Enterococcus hirae, Escherichia coli, Pseudomonas aeruginosa, Candida albicans, Swine plague - Bovine viral diarrhea virus (BVDV), Swine and avian flu. (Influenza A virus H1N1)	Tools apparatus (Remember to wash afterwards)	1 tablet –10 l of water Time before effect: 5 min.	Daily/ periodically
Novadan Des Wipes	Is a disposable wipe for cleaning and desinfection of all types of surfaces, machines and instruments within the healthcare sector and food industry.	Staphylococcus aureus, Escherichia coli, Proteus mirabilis Pseudomonas aeruginosa, Candida albicans, MRSA, H1N1 HBV (HIV), HCV	Lifting pool with adjustable handle, bed guard, remote control of beds, extension piece for bed guards, handle, polyester line for lifting pool.	Time before effect: 1 min. Apart from H1N1: 30 min	After every touching

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4.02 **Storage**

See 3.00

For long-term storage of GH1 the emergency stop must be activated. This ensures that the battery is not being discharged.

4.03 **How to prevent/avoid corrosion?**

When the GH1 is mainly used in a corrosive environment, e.g. swimming pool, the hoist must be ordered with a special corrosion-preventive surface treatment.

4.04 **The owner's daily maintenance duty**

Check the lifting sling for wear and damage before use.
Do not use the lifting sling if it is damaged or defective.
Do not use GH1 if the lifting strap or the rubber safety catch of the lifting hanger are damaged or defective.
Contact your supplier and order a new lifting sling or a replacement of the lifting strap. Replacement of the lifting strap must only be performed by the Guldmann Service Team or by a qualified technician in accordance with Guldmann's instructions.

4.05 **Disposal of the GH1 including battery**

Local and national regulations on environmentally correct recycling must be observed. Batteries (type NiMH) must always be delivered to an approved recycling point.

5.00 Service and lifetime

5.01 **Lifetime**

The GH1 has an expected lifetime of 15 years, on the condition of correct use and correct service inspections, see section 5.02.

Replacement of components

Replacement of batteries, PCBs and lifting straps must be performed by a qualified service technician or the Guldmann Service Team.

5.02 **Safety/service inspections**

In accordance with international standard EN/ISO 10535 "Hoist for the transfer of disabled persons – Requirements and test methods" an inspection should be performed on the hoist at least once a year.
Guldmann recommends that regular safety/service inspection is performed at least once a year with regard to the pattern of usage.

Inspection of the GH1 must be performed by a qualified service technician or the Guldmann Service Team.
In connection with the purchase of the GH1, Guldmann or your supplier may offer a service agreement for this inspection.

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During the safety/service inspection a report must be prepared on what was checked and replaced. Parts that are worn or defective must be replaced with new parts from Guldmann. Spare parts drawings and documentation can be obtained from the manufacturer or supplier.

Documentation/checklist regarding safety/service inspection can be obtained from the manufacturer or supplier.

5.03 Troubleshooting

The GH1 does not respond to the hand control's keys

1. Check that the emergency stop is not activated *(see section 2.04)*.
2. Check that GH1 has power supply and that the battery is recharged *(see section 2.02)*.
3. Check that the transformer is switched on and connected to the charging station.
4. Place the hand control in the charging station and recharge GH1 *(see section 2.03)*.
5. Contact the Guldmann Service Team if the fault cannot be found and corrected.

6.00 Classification

CE-marking

Type B in accordance with IEC/EN 60601-1

Read the manual before use

Must not be disposed of as standard household waste, must be recycled.

Class 1 equipment . . . . . Permanent installation with protective ground
Class 2 equipment . . . . . Non-permanent installation without protective ground

The equipment is not suitable for use in the presence of flammable mixtures.

Degree of protection against harmful ingress of liquids (water)

Lifting module. . . . . IP 44
Hand control. . . . . IP 44
Charging station. . . . . IP 20
Power supply . . . . . IP 20

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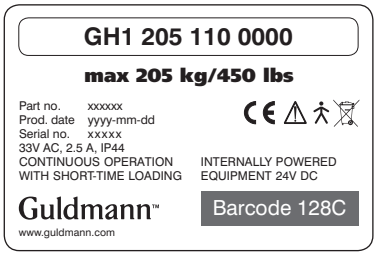
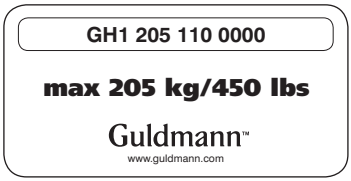
Examples of labels

Lifting module

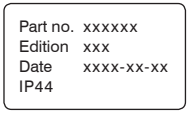




Power supply

Lifting hanger

Hand control



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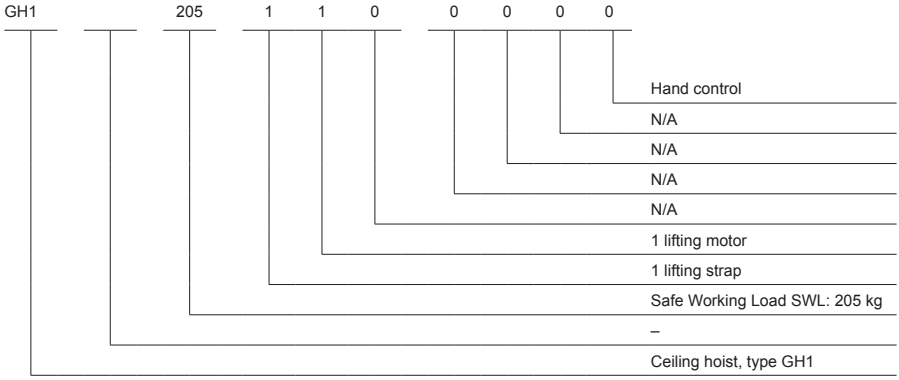
7.00 Technical specifications

GH1 Lifting modules, configurations									
Guldmann hoist type	Product line	Load in kg	Number of lifting straps	Number of lifting motors	Additional functions	Scale module	CLM module	Service module	User interface
GH1	(x)	xxx	x	x	x	x	x	x	x
GH1		175	1	1					Hand control : 0
		205	1	1					
GH1	Q	175	1	1	5				
		205	1	1	5				

Example: GH1 205 110 0000

GH1		**205**	**1**	**1**	**0**	**0**	**0**	**0**	**0**



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Functions

Lifting capacity, SWL . . . . . 175 kg (385 lbs), 205 kg (450 lbs)
Operation . . . . . Hand control
Sound level . . . . . .52 dB (A)

Lifting speed

85 kg (187 lbs) load . . . . . 40 mm/sec.
150 kg (330 lbs) load . . . . . 40 mm/sec.
Max capacity load, SWL . . . . . 40 mm/sec.
Max. 5 kg (11 lbs) load . . . . . 80 mm/sec.

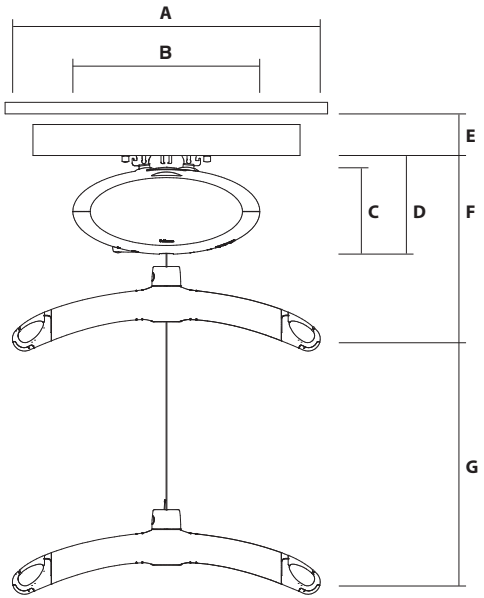
Weight and materials

SWL . . . . . 175 kg (385 lbs), 205 kg (450 lbs)
Own weight . . . . . 8.0 kg (17.6 lbs)

Covers, top and bottom . . . . . Impact-resistant UL 94 V-0 flame
. . . . . .retardant recyclable plastic

Dimensions

A . . . . . .580 mm
B . . . . . .350 mm
C (GH1 / GH1 Q) . . . . . .156 mm / 187 mm
D (GH1 / GH1 Q) . . . . . .184 mm / 196 mm
E, min . . . . . .83 mm
F, min (GH1 / GH1 Q) . . . . . .415 mm / 427 mm
G . . . . . .2500 mm
Depth of hoist . . . . . .194 mm



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Safety

Emergency stop . . . . . Yes
Emergency lowering device . . . . . Yes, electrical
Control of lifting strap . . . . . Yes
Cut-off angle . . . . . 45° along the rail
. . . . . 10° across the rail

Electronics

On/off . . . . . Automatic when used. Soft start/stop
Overload protection . . . . . Automatic
Low battery protection . . . . . Automatic
Power supply . . . . . 36 V DC, 0.83 A
Supply voltage, transformer . . . . . 100-240 V AC, 47-63 Hz

Battery . . . . . 24 V NiMH
SWL: 175 kg (385 lbs), 205 kg (450 lbs) . . . . . 2.8 Ah

Continuous operation with short time loading with
3 hours without recharging . . . . . 10/90 % (2 min. operation/18 min. pause)

Max number of lifts in series with:
85 kg (187 lbs) . . . . . 55/1000 mm
SWL: 175 kg (385 lbs), 205 kg (450 lbs) . . . . . 28/1000 mm

Max charging time at 25ºC (77ºF):
SWL: 175 kg (385 lbs), 205 kg (450 lbs) . . . . . 3 hours

Operating temperature . . . . . 10°C - 35°C (50°F - 95°F)

Degree of protection against harmful ingress of liquids (water)

Lifting module . . . . . IP 44
Hand control . . . . . IP 44
Charging station . . . . . IP 20
Power supply . . . . . IP 20

8.00 EC-Declaration of conformity

The products are manufactured in compliance with the Council Directive 93/42/EEC of 14 June 1993 – with amendments, as medical device class 1.

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USA and countries outside the EU

A. **Users guide**

Before using the product, read the entire operation manual including warranty.

B. **WARRANTY**

Guldmann warrants its equipment is free from material defects under normal use, and will perform substantially in accordance with the specifications set forth in documentation provided with the equipment.

This express warranty shall be in effect for one year from the date of original purchase and installation (the “Warranty Period”). If a valid claim is made during the Warranty Period for malfunction or equipment defect, Guldmann will repair or replace the equipment at no additional cost to you. Guldmann retains sole discretion as to whether the equipment will be repaired or replaced.

This warranty shall be null and void if the equipment is operated and maintained in any manner inconsistent with its intended use or the instructions provided with the product. Further, in order for the warranty to remain in effect for the full Warranty Period, all service to the equipment must be provided by a Guldmann designated technician. Any parts or components repaired or replaced by a Guldmann designated technician will be guaranteed for the remainder of the Warranty Period.

The warranty does not cover any part of the equipment which has been subject to damage or abuse by the user or others. The warranty does not cover any part of the equipment which has been altered or changed in any way by the user or others. Guldmann does not warrant that the lifting device functions will meet your requirements, be uninterrupted or error free.

The warranty set forth is in lieu of all other express and implied warranties, whether oral, written or implied, and the remedies set forth above are your sole and exclusive remedies. Only an authorized officer of Guldmann may make modifications to this warranty, or additional warranties binding on Guldmann. Accordingly, additional statements such as advertising or presentations, whether oral or written, do not constitute warranties by Guldmann.

Service or Repair

Contact Guldmann Repair for an authorization to return any defective item during the Warranty Period. You will be provided with a return authorization number and address for returning the item for warranty service or replacement. Do not return items to Guldmann under warranty without receiving a Return Authorization Number.

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If mailing the item, pack it carefully in a sturdy carton to prevent damage. Include your Return Authorization Number, a brief description of the problem and your return address and phone number. Guldmann does not assume the risk of loss or damage while in transit, so it is recommended you insure the package.

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Time to care

V. Guldmann A/S
Corporate Office:
Graham Bells Vej 21-23A
DK-8200 Aarhus N
Tel. +45 8741 3100
Fax +45 8741 3131
info@guldmann.com
www.guldmann.com

Guldmann Inc.
5525 Johns Road
Suite 905
Tampa, FL 33634
Tel. 800 664 8834
Tel. 813 880 0619
Fax 813 880 9558
info@guldmann.net
www.guldmann.net